

REVISION HISTORY					
DATE	REV	DESCRIPTION	AUTHOR	CHECKED BY	APPROVED
12/14/16	A	UPDATED NOTES, ADDED NOTE 9; ADDED ALBCS 303 59-9 STRIP IN DETAIL H; ADDED 140-001-1 WASHERS IN SECT. L-L; ADDED CLAMPS AND HARDWARE IN SECT. N-N; ADDED CB9302V3 TIE MOUNS IN VIEW K-K; ADDED TIE MOUNT AND MS3367-2 ZIP TIE IN DETAIL B; ADDED SECTIONS M-M, N-N, O-O AND P-P; RE-IDENTIFIED PARTS IN SECT. C-C, M-M AND N-N; ADDED SECT. Q-Q AND ASSOCIATED HARDWARE; ADDED ITEM #'S 36, 37 AND 38.	JT	LS	JT
4/6/17	B	ITEM NUMBER 27 WAS 14 IN NOTE 5, REPLACED MS21043-3 AND MS21043-08 WITH MS21042L3 AND MS21042L08 RESPECTIVELY AND MS27039-1-07 WITH MS27039-1-08, ADDED NOTE TO VIEW K-K, ADDED SECTION AF-AF, SECTION L-L DIM 7.74 WAS 7.55 AND 6.72 WAS 6.40, ADDED NOTE 10 AND 11, ITEM 24 WAS MS21919WDG48, REMOVED SECTION M-M SHT 2 AND CLAMPING IN VIEW, ADDED NOTE 12.	EW	LS	JT
6/2/17	C	ADDED NOTE 13.	EW	LS	JT
7/14/17	D	MOVED REV BLOCK TO NEW SHT 1, BOM ITEM 24 WAS MS21919WDG50 (COULD NOT SOURCE "W" TYPE CLAMP IN SIZE 50), BOM ITEM 13 QTY WAS IN, REV B AUTHOR WAS ETW, FILLED IN CHECKED BY AND APPROVED INITIALS REV B.	EW	LS	JT
4/4/18	E	SHT. 2 NOTE 13 COLOR WAS 37208; SHT 3 DETAIL D MOVED NOTE FLAG 2 TO ITEM 4, MOVED F.S. 120.2 REF TO CL; SHT 6 MOVED TORQUE SPEC TO NUT; SHT 8 SECTION L-L ADDED 4X TO ITEM 2, SECTION Q-Q ADDED ITEM 32 BALLOON, SHT 9 ADDED 4X TO ITEM 2; BOM ITEM #21 WAS MS21266-3, BOM ITEM 32 WAS MS21919WDG11.	EW	LS	EW
7/3/18	F	SHT 7 ITEM 31 CHANGED TO 35	ZA	LS	EW
4/3/19	G	SHT 2: NOTE #13, ADDED GLOSS RATING, ADDED NOTES 14 & 15; ADDED -5 CONFIGURATION SHOWN ON SHT 10 WITH BOM; SHT 3: ADDED TRIANGLE NOTE 15 TO ITEM 7	ZA	LS	ZA
4/29/20	H	SHT 5: FIXED TRIM NOTATION TO ORIGINAL .25 DIMENSION; REMOVED PREVIOUS SHT 10 AND -5 CONFIGURATION; ADDED -3 RETROFIT AND -5 INSTALLATION W/ -5 NOTATION SHOWN ON EVERY PAGE; ADDED NEW SHTS 10,11 W/ -3 RETROFIT	ZA	LS	ZA
1/4/21	J	-2 & -5 INSTALLATIONS ADDED HARDWARE FOR ACTUATOR DRIP TRAY; SHT 2: ADDED FLAG NOTES 16&17; SHT 6: MADE VIEW EDGES SMOOTH FOR CLARITY; SHT 8: ADDED SECTION VIEW AL-AL AND FLAG NOTE 16&17, ADDED 1X ITEMS 20,23,40, ADDED 2X ITEM 30, REMOVED 1X ITEM 27; SHT 11: ADDED ADDITIONAL INSTALL INFORMATION TO FLAG NOTE 38; BOM ITEM 2 WAS 1624-0411 NOW NAS9301B4-03 WITH OLD PART AS ALT. AND CR3213-4-03 ADDED AS ALT.	ZA	DT	MH

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3RD ANGLE
PROJECTION

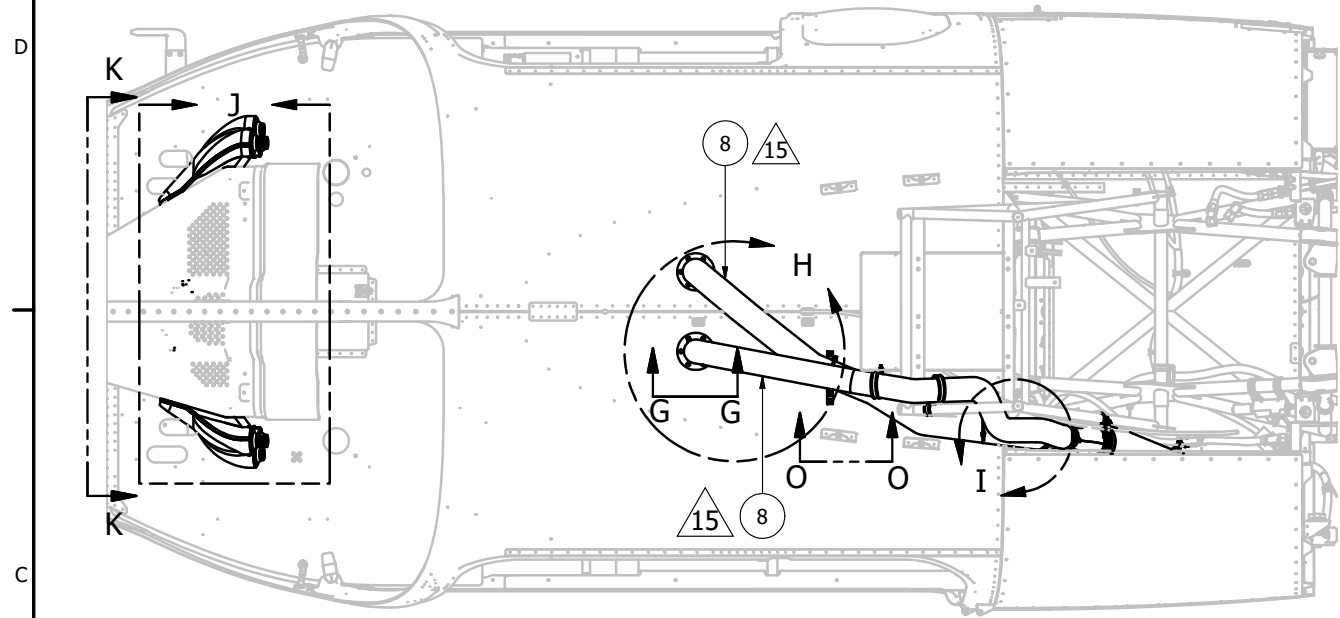
TITLE
OUTLET PLENUM
INSTALLATION

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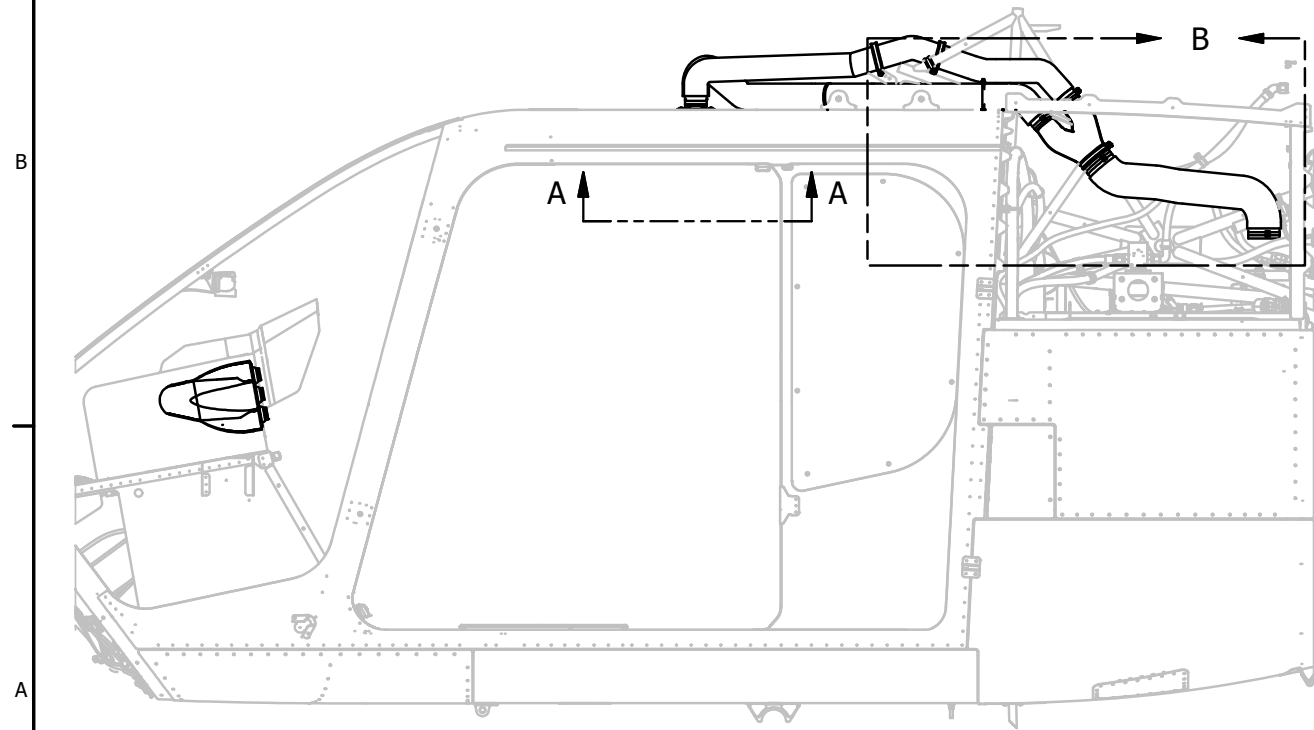
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SHEET
1 OF 11



VIEW LOOKING DOWN
←----- FWD

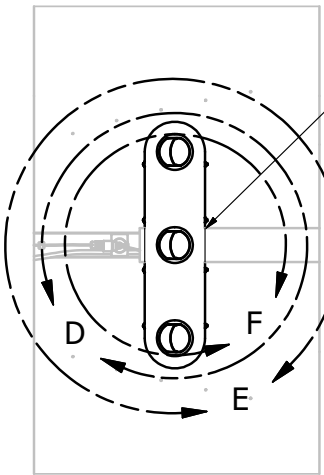


SIDE VIEW
←----- FWD

-2/-5 OUTLET PLENUM INSTALLATION (-5 SHOWN)

NOTE:

1. TORQUE ALL FASTENERS PER BHT-ALL-SPM CHAPTER 2.
2. LOCATE Ø 2.25" HOLES USING TEMPLATE 505AC-5200-100.
3. ALL SCREWS TO BE COATED WITH ADHESIVE SEALANT, 299-947-107, TYPE III, CLASS 7, MIL-S-8802, CLASS B2 OR PROSEAL 890-B2. PRECLEAN SEALED SURFACES PER BTH-ALL-SPM.
4. MATING SURFACE BETWEEN PART AND ROTORCRAFT CABIN TO BE SEALED USING ADHESIVE SEALANT, 299-947-107, TYPE III, CLASS 7, MIL-S-8802, CLASS B2 OR PROSEAL 890-B2. ALL SURFACES TO BE CLEANED IN ACCORDANCE WITH BTH-ALL-SPM.
5. USE CABLE TIES, ITEM NUMBER 27, TO SECURE DUCT TO TRUSS WITHIN THESE GENERAL LOCATIONS.
6. APPLY TEFLON TAPE, 299-947-110, TO TRUSS AT LOCATIONS WHERE DUCT MAY BE IN CONTACT TO PREVENT CHAFING.
7. BOND IN PLACE USING, 299-947-125 TYP 1 (EA9309NA) PER BHT-ALL-SPM.
8. AFTER THE DUCTING IS INSTALLED, THE LOCATIONS CAN BE DETERMINED. BOND TO GLARE SHIELD WITH 299-947-066 TY I PER BHT-ALL-SPM.
9. CONSUMABLE MATERIALS ARE NOT PROVIDED. REFER TO THE PR-505AC-900M INSTALLATION INSTRUCTIONS.
10. MEASURED ALONG THE SURFACE OF THE GLARESHIELD, REF. DETAIL J.
11. REMOVE WIRE (ABOUT 1"-1.5" OF DUCT LENGTH) FROM INSIDE OF DUCT ASSEMBLY AT EACH END TO FACILITATE INSTALLATION ON DUCT ADAPTORS. **NOTE:** USE PLIERS TO BEND ABOUT 1/2" AT EACH END OF WIRE AFTER CUTTING TOWARD THE INSIDE DUCT TO PREVENT PUNCTURING DUCT FABRIC.
12. WHEN ATTACHING DUCTING, IT IS OPTIONAL TO PLACE A SINGLE LAYER OF TAPE ON THE DUCT ADAPTER, THEN INSTALL THE DUCT USING THE APPROPRIATE TY WRAP, THEN PLACE A SINGLE LAYER OF TAPE OVER THE TY WRAP. TAPE SPECIFICATION A-A-59163 Ty 1.
13. AFTER INSTALLATION, COAT ALL VISIBLE FASTENER HEADS AND ANY METAL SURFACES OF THE AIR CONDITIONING SYSTEM LOCATED IN THE COCKPIT AREA WITH ONE LAYER OF FLAT BLACK FINISH PER MIL-PRF-85285 TYPE 1 CLASS H, COLOR 37038 BLACK. GLOSS: 5 UNITS MAXIMUM AT 60° AND 9 UNITS MAXIMUM AT 20°.
14. BULK ES00135-2 INSULATION MAY BE USED AS NECESSARY TO PATCH OR COVER EXPOSED AREAS
15. INSTALL DUCTING WITH INSULATION SEAM FACING INBOARD
16. INSTALL RIVET WITH RIVET HEAD INSIDE INSTRUMENT PANEL SHROUD. WASHER AND RIVET SHANK INSIDE OUTLET.
17. IT IS ACCEPTABLE TO HAVE MS3367-2-0 ZIP TIE INSTEAD OF SHOWN HARDWARE FOR AIRCRAFT THAT DON'T HAVE ACTUATOR DRIP TRAY.



TRIM CENTERPOST INTERIOR TO FIT

SECTION A-A
VIEW LOOKING UP
←---- FWD

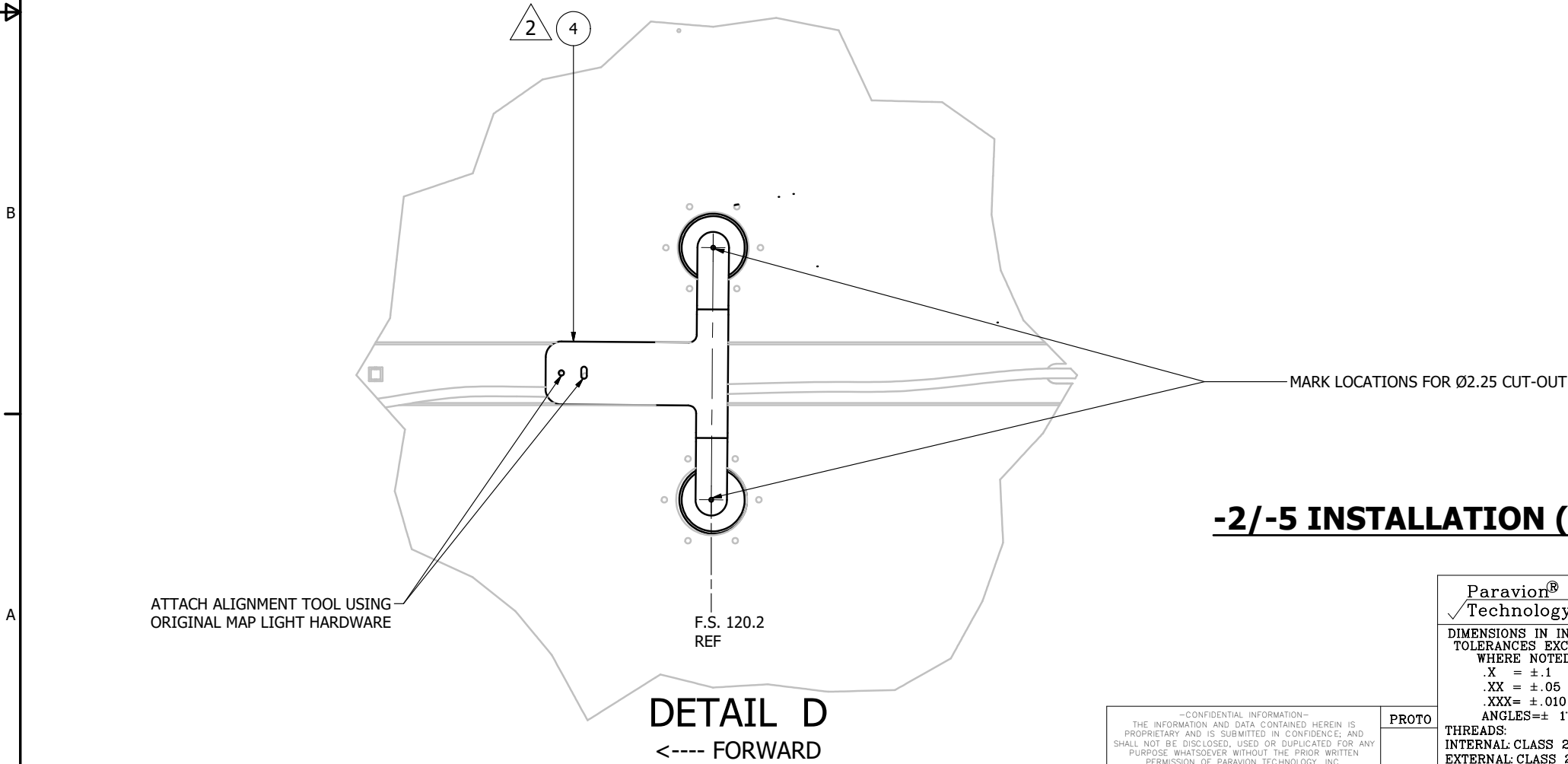
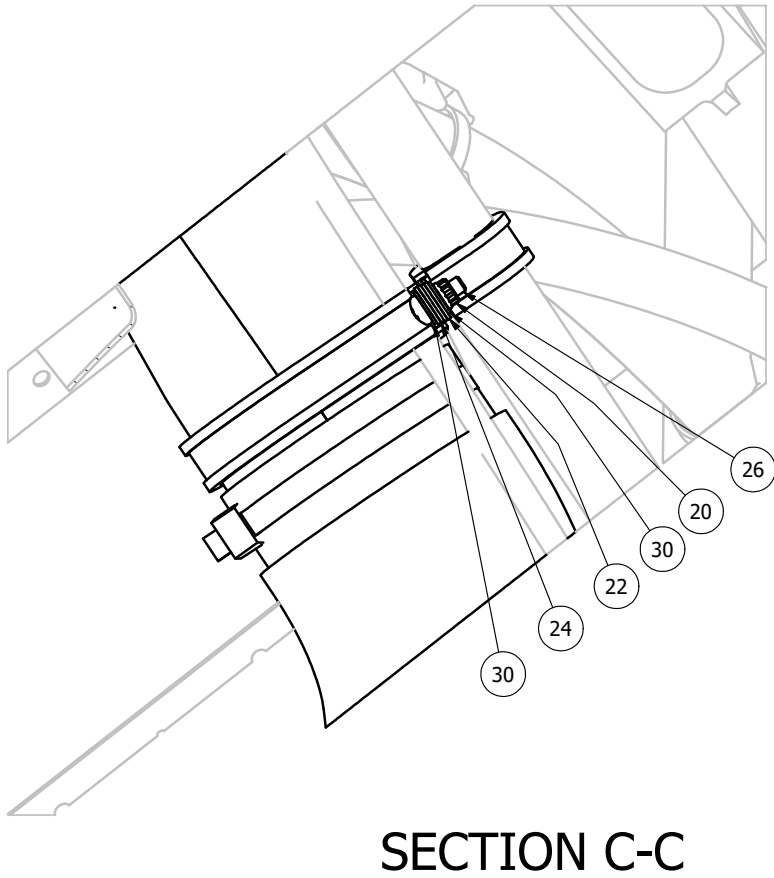
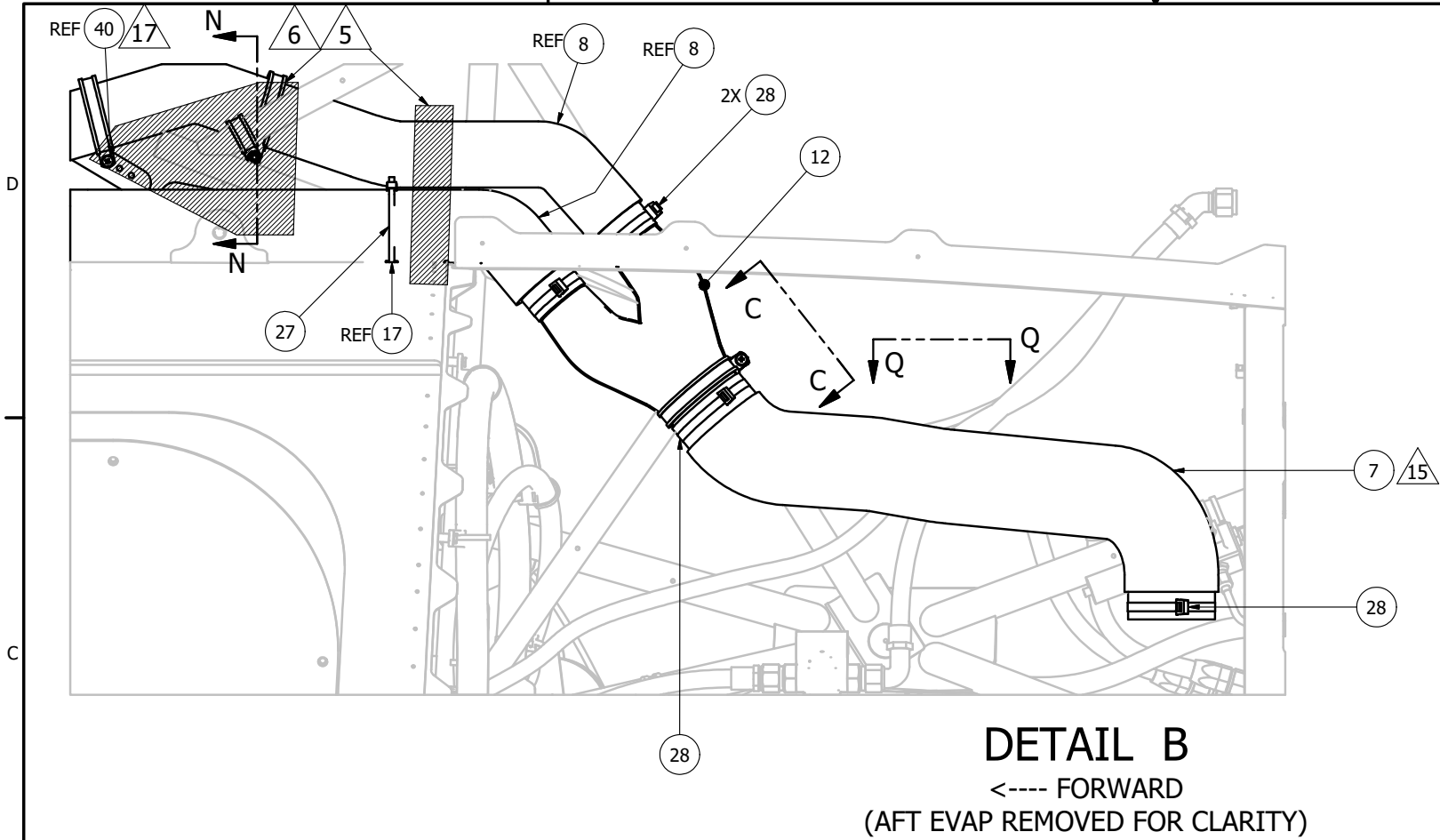
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3RD ANGLE
PROJECTION



-2/-5 INSTALLATION (-5 SHOWN)

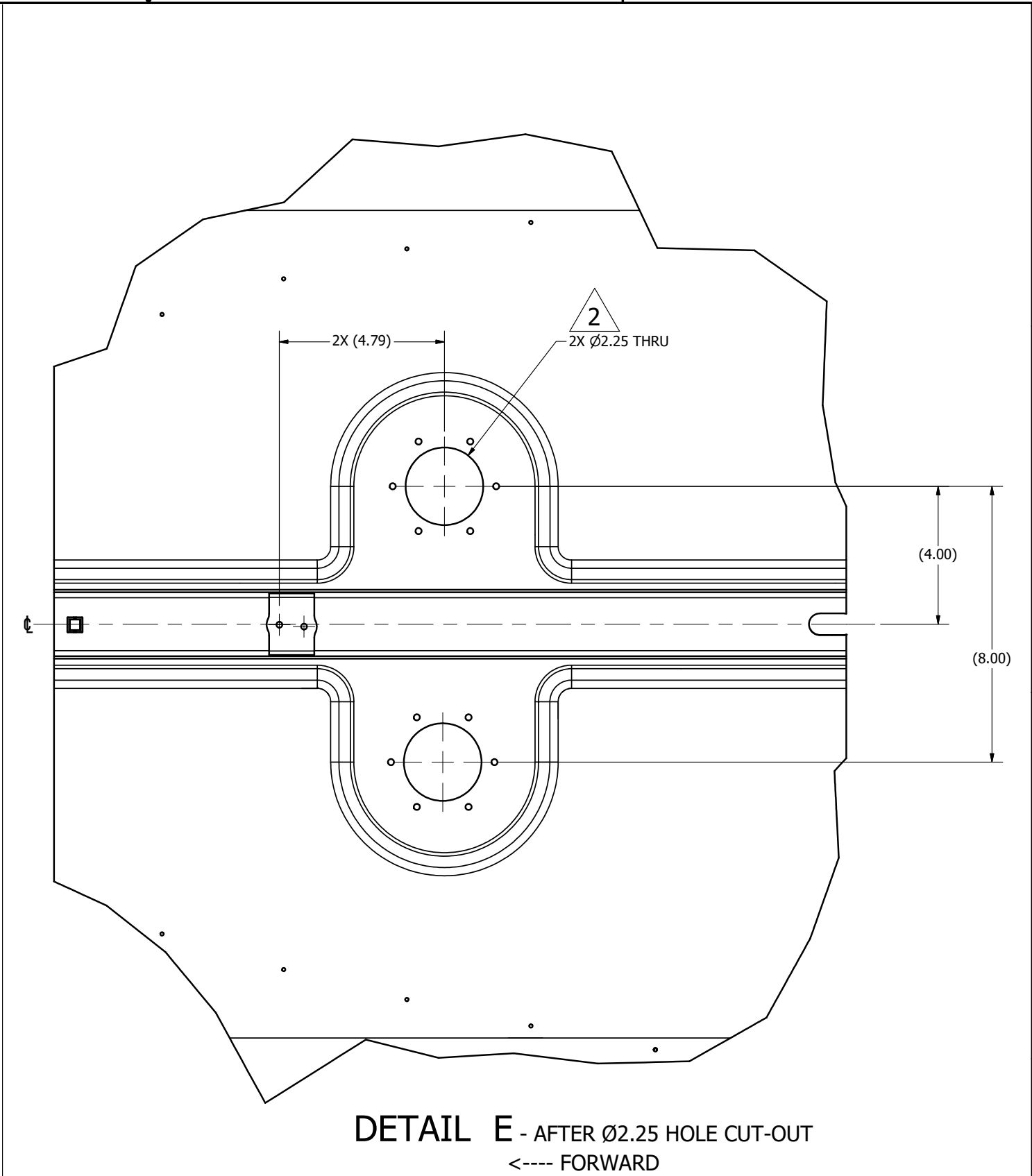
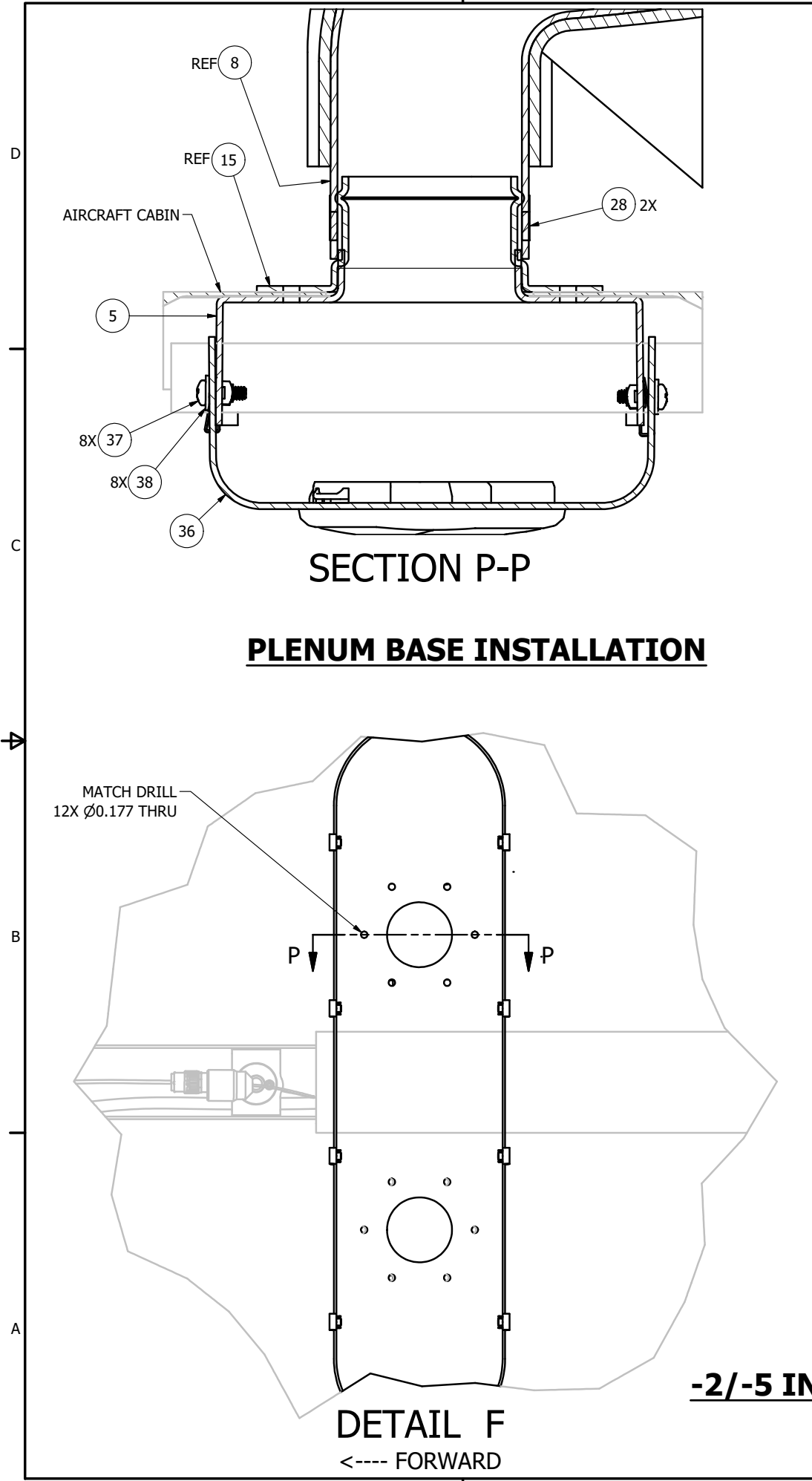
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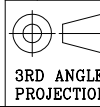
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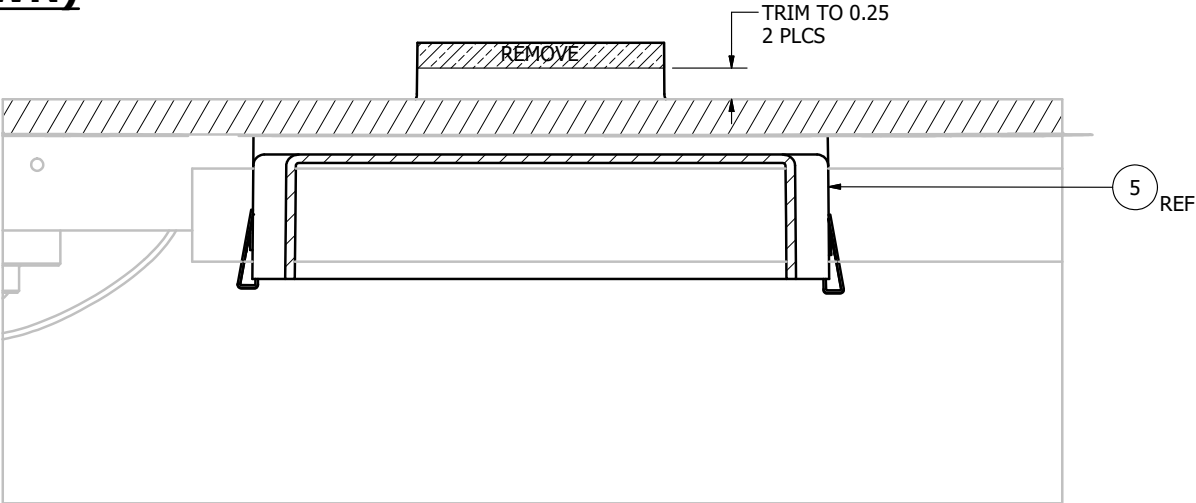
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3RD ANGLE
PROJECTION

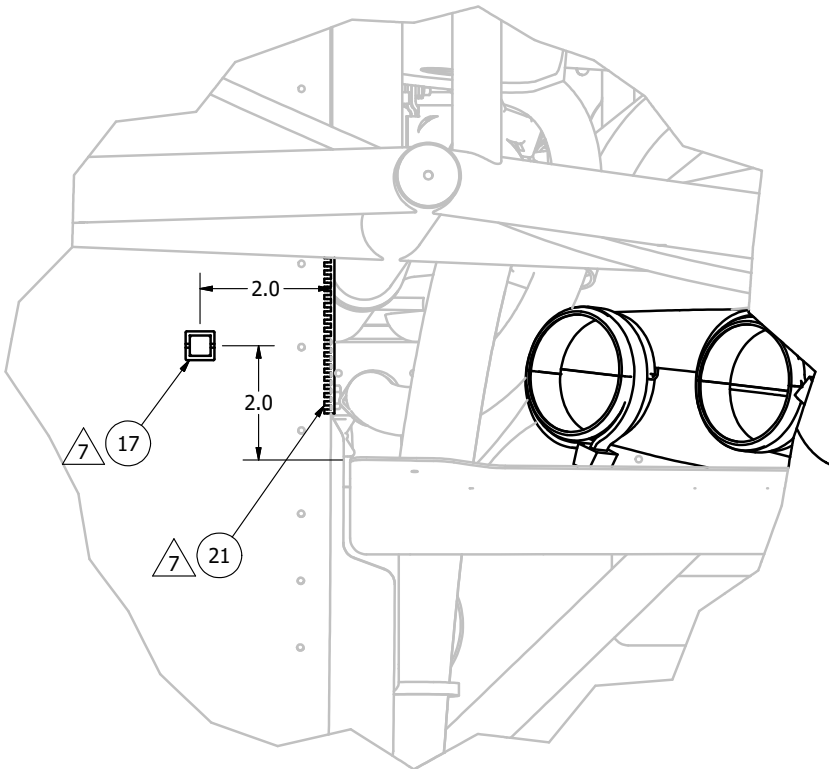
PLENUM BASE - DUCT TRIM

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SECTION G-G


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DETAIL I
(DUCTING REMOVED FOR CLARITY)

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D

C

B

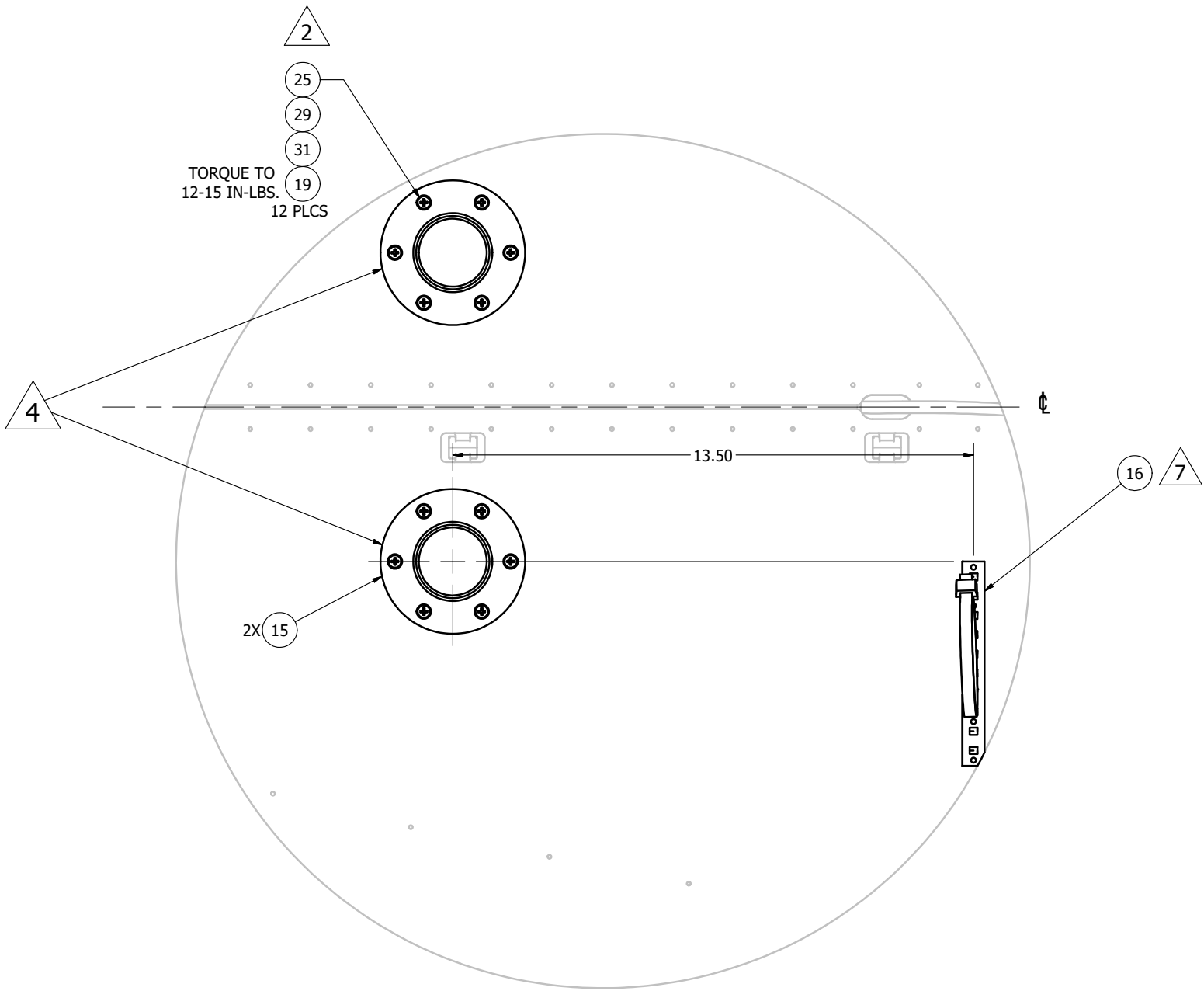
A

D

C

B

A



DETAIL H
<---- FORWARD

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3RD ANGLE
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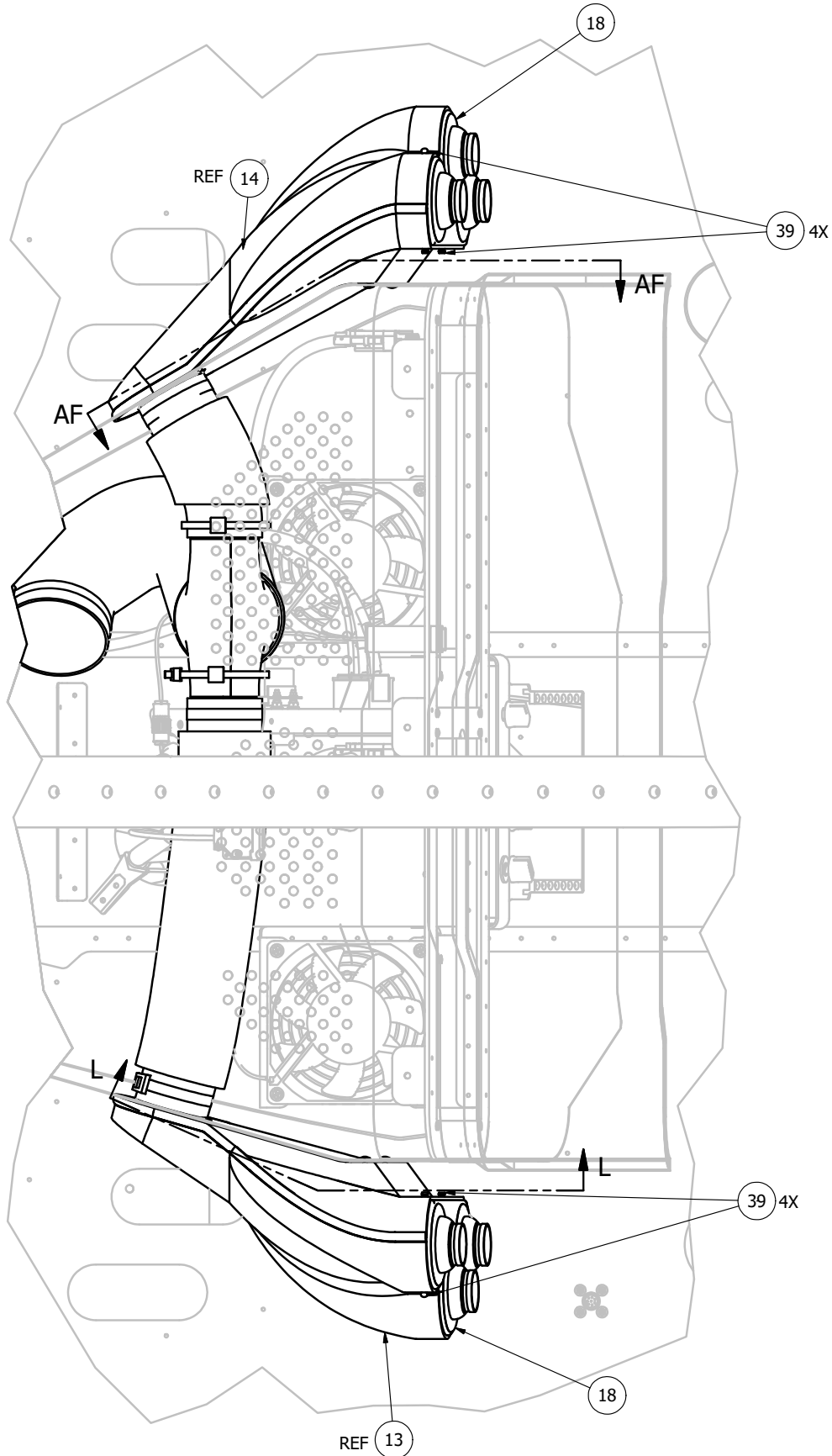
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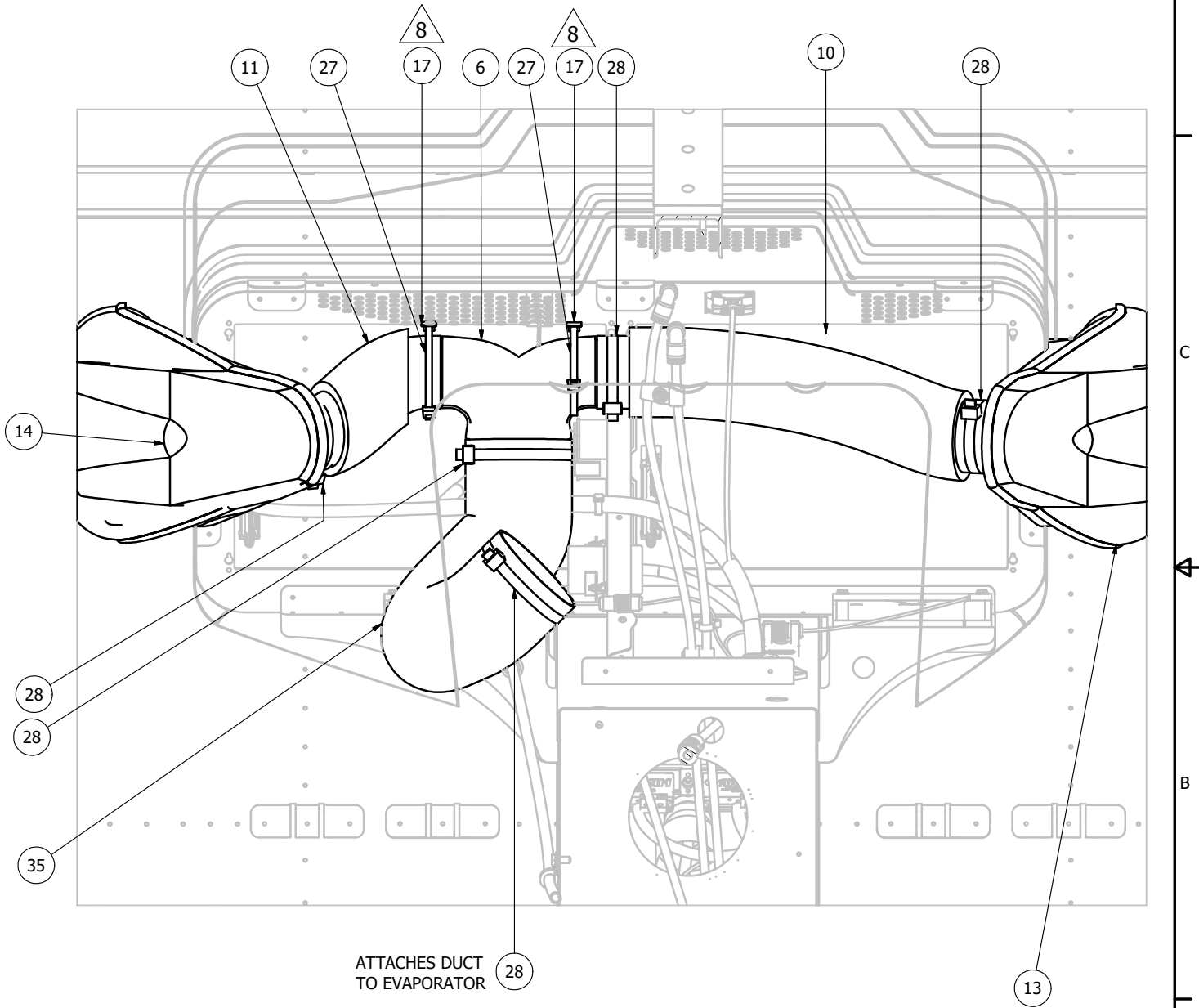
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D
C
B
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DETAIL J
(FWD EVAP REMOVED FOR CLARITY)

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VIEW K-K
(FWD EVAP REMOVED FOR CLARITY)

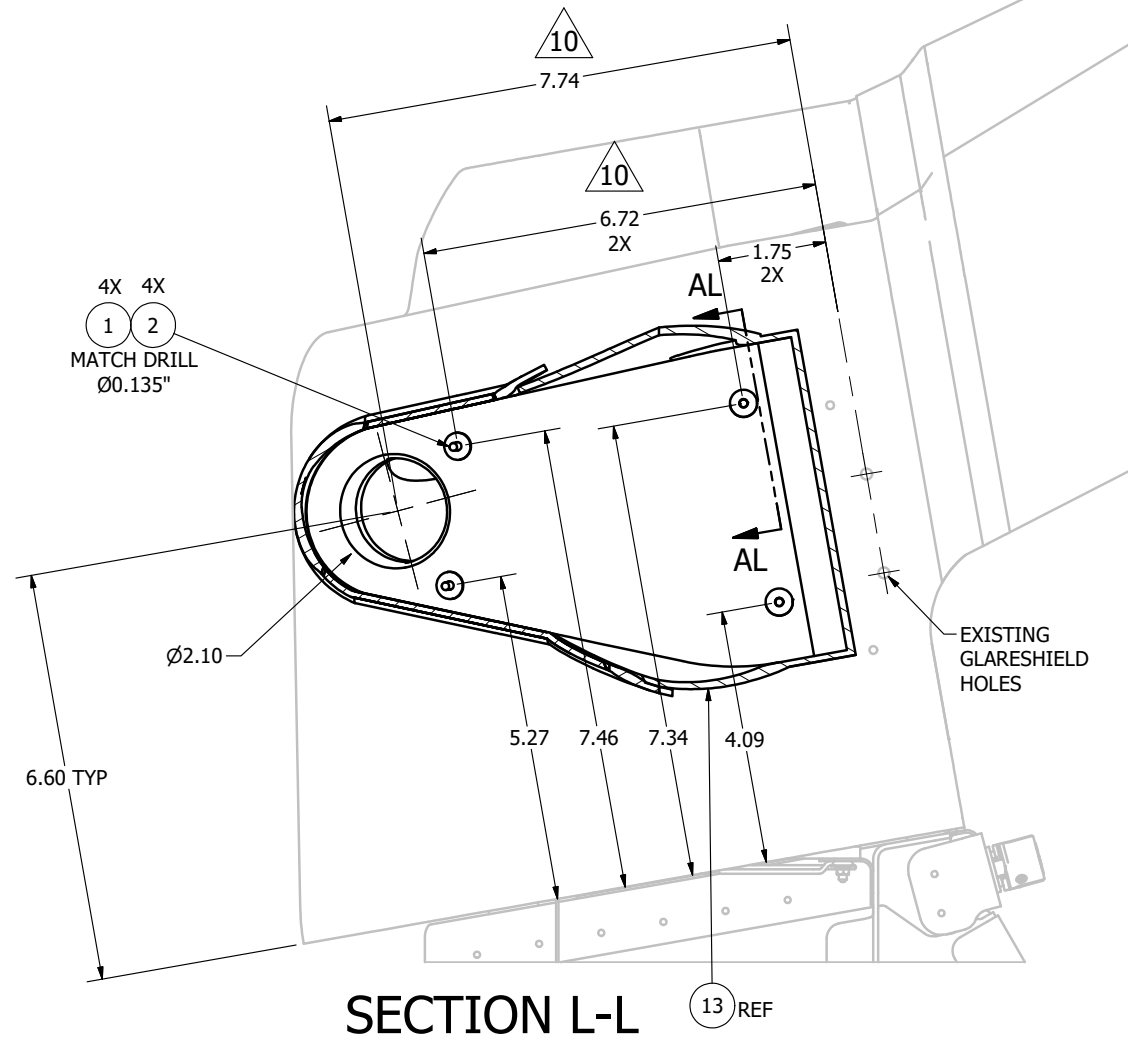
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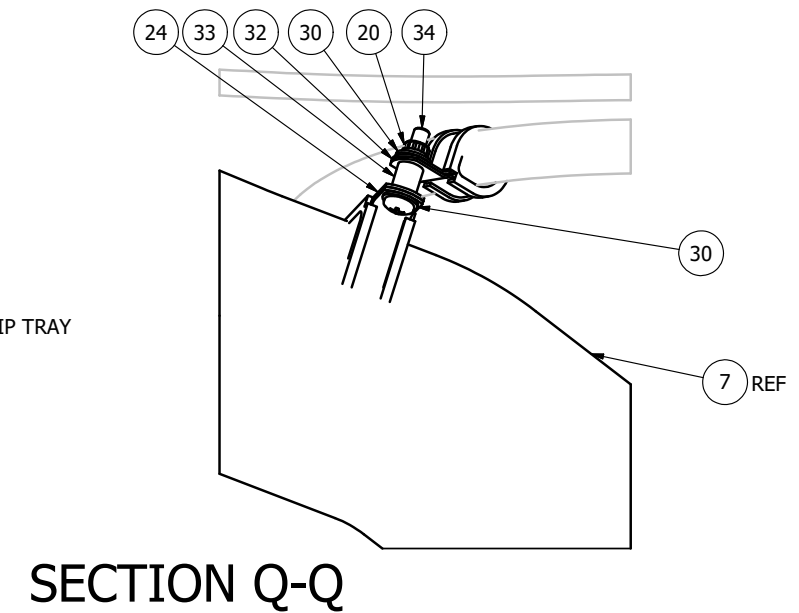
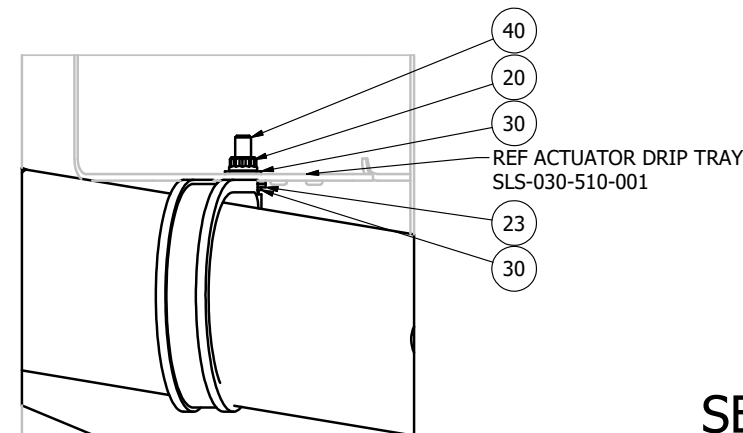
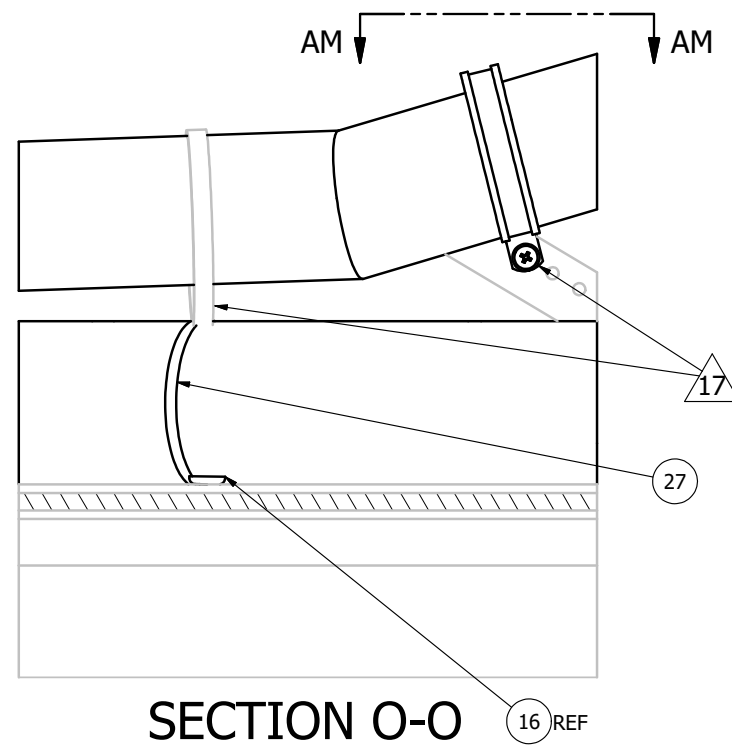
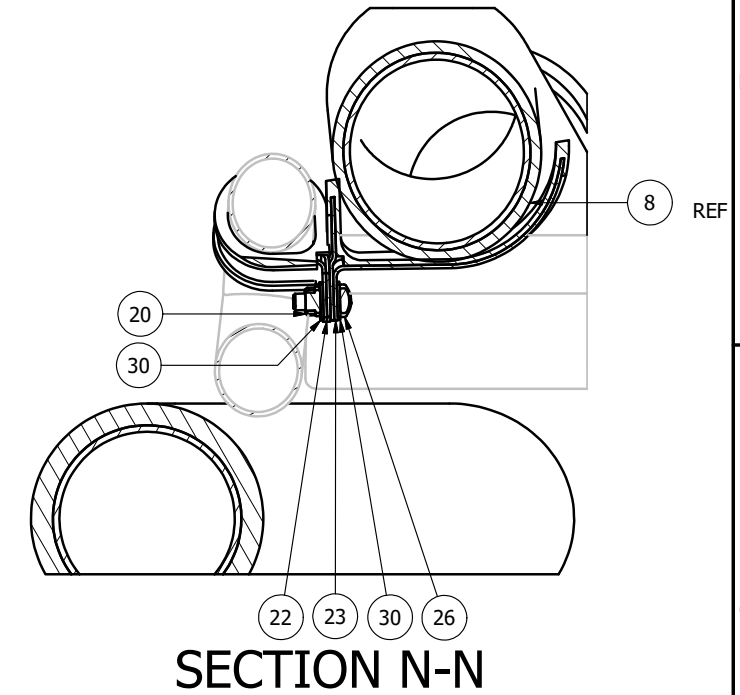
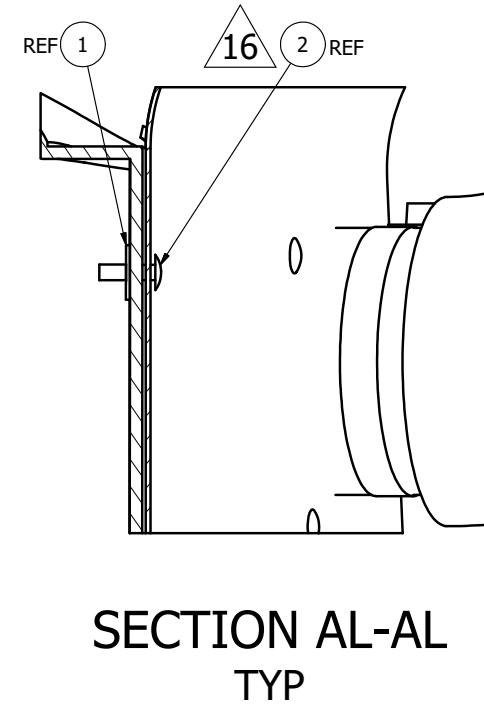
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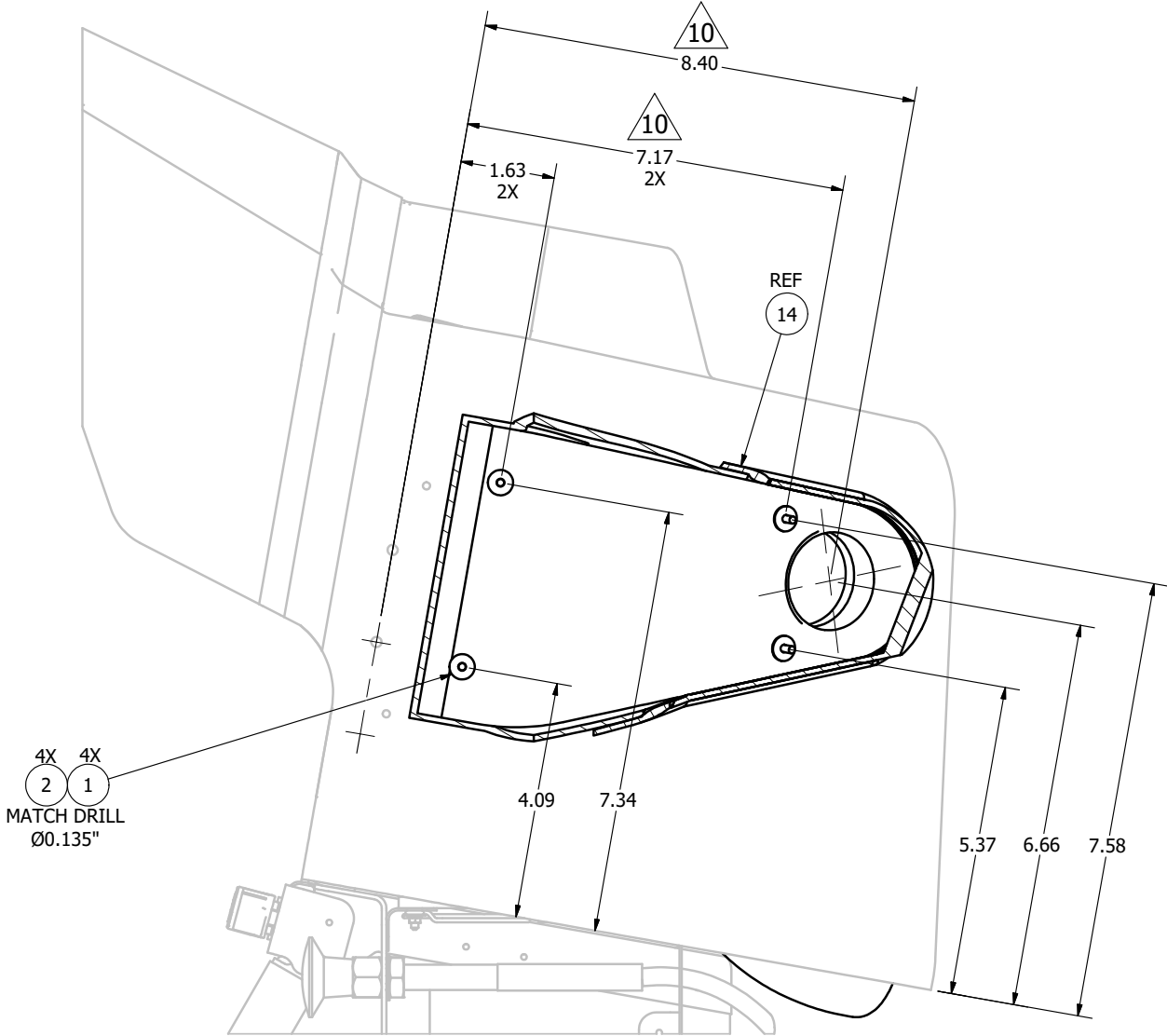
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SECTION AF-AF
RH SIDE OUTLET HOLE DIMENSIONS

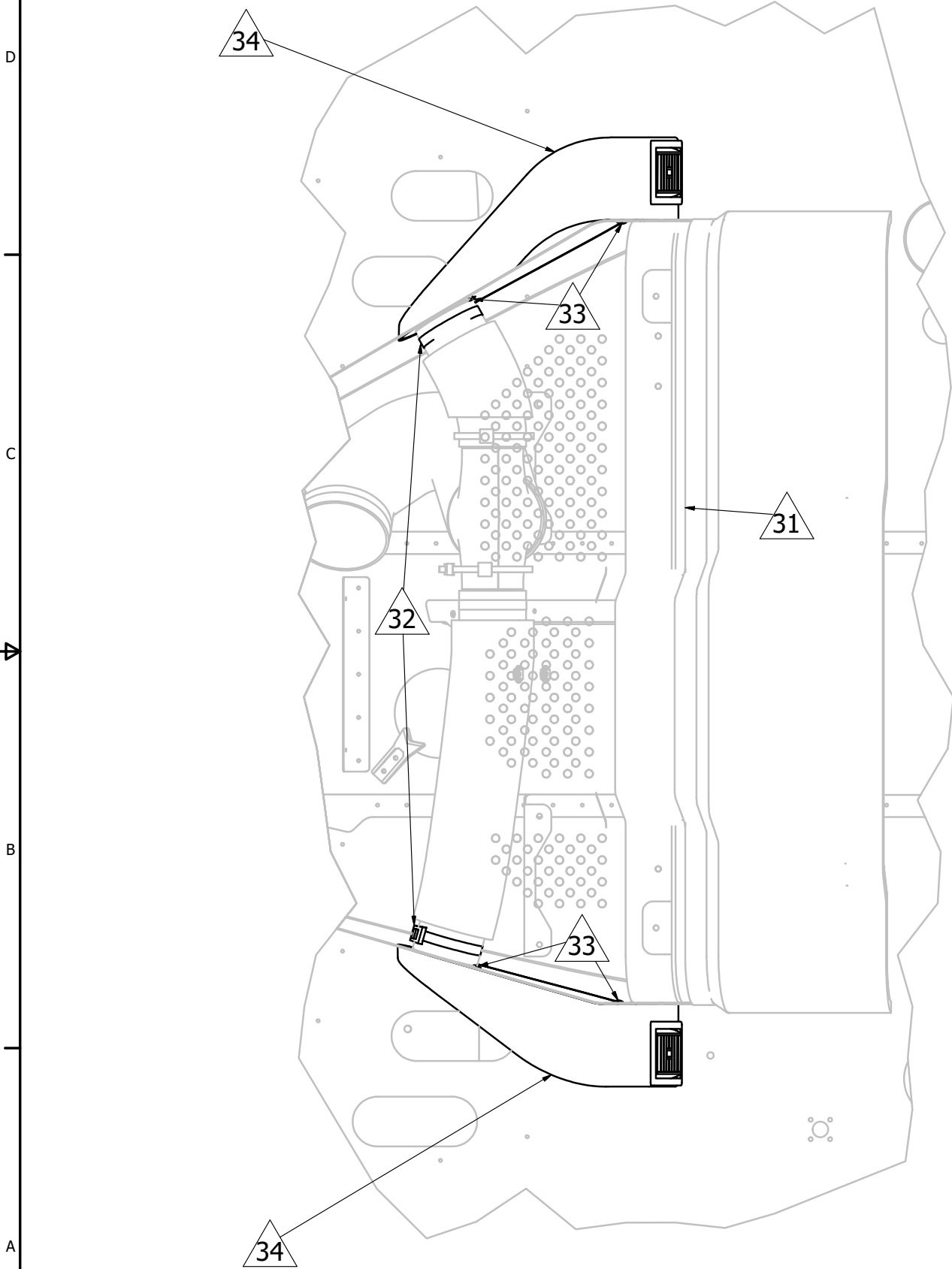
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-3 RETROFIT



DETAIL K
-2 INSTALLATION SHOWN

505AC-524-3 PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	8	140-001-1	WASHER
2	8	1624-0411	RIVET
13	1	505AC-5220-71	LH OUTLET HOUSING ASSY
14	1	505AC-5220-70	RH OUTLET HOUSING ASSY
18	2	505AC-5220-77	OUTLET CAP ASSY
28	2	MS3367-3-0	ZIP TIE
39	8	SRVO-2672B	SNAP RIVET

RETROFIT INSTRUCTIONS:

- 31. REMOVE EXISTING INSTRUMENT PANEL DISPLAYS
- 32. CUT EXISTING ZIP TIE AND DISCONNECT DUCTING FROM EXISTING OUTLETS
- 33. DRILL OUT EXISTING RIVETS 8X
- 34. UNINSTALL EXISTING 505AC-5220-50 & -51 OUTLETS, ES72184-1 LOUVER ASSEMBLIES, AND FASTENING HARDWARE

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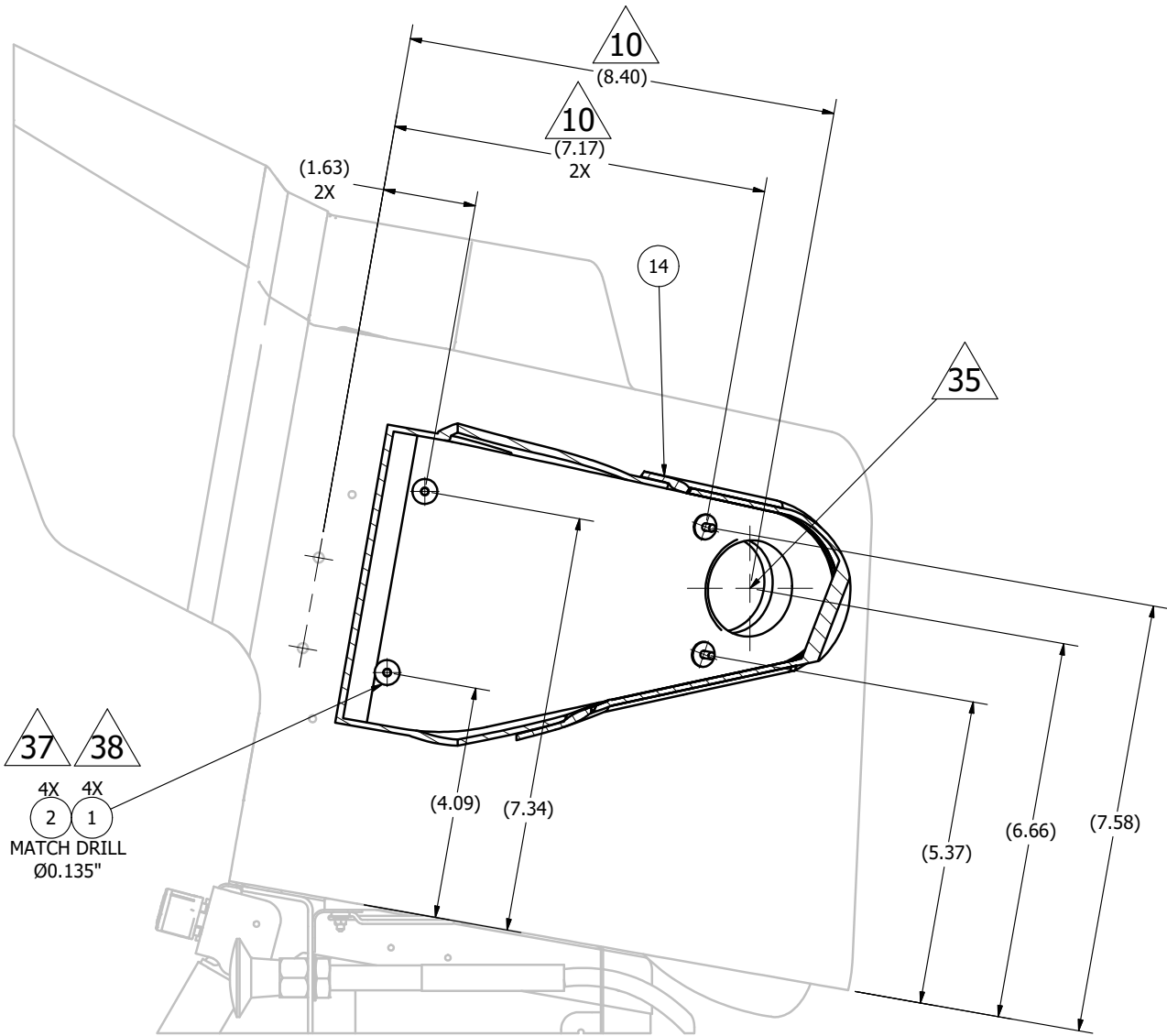
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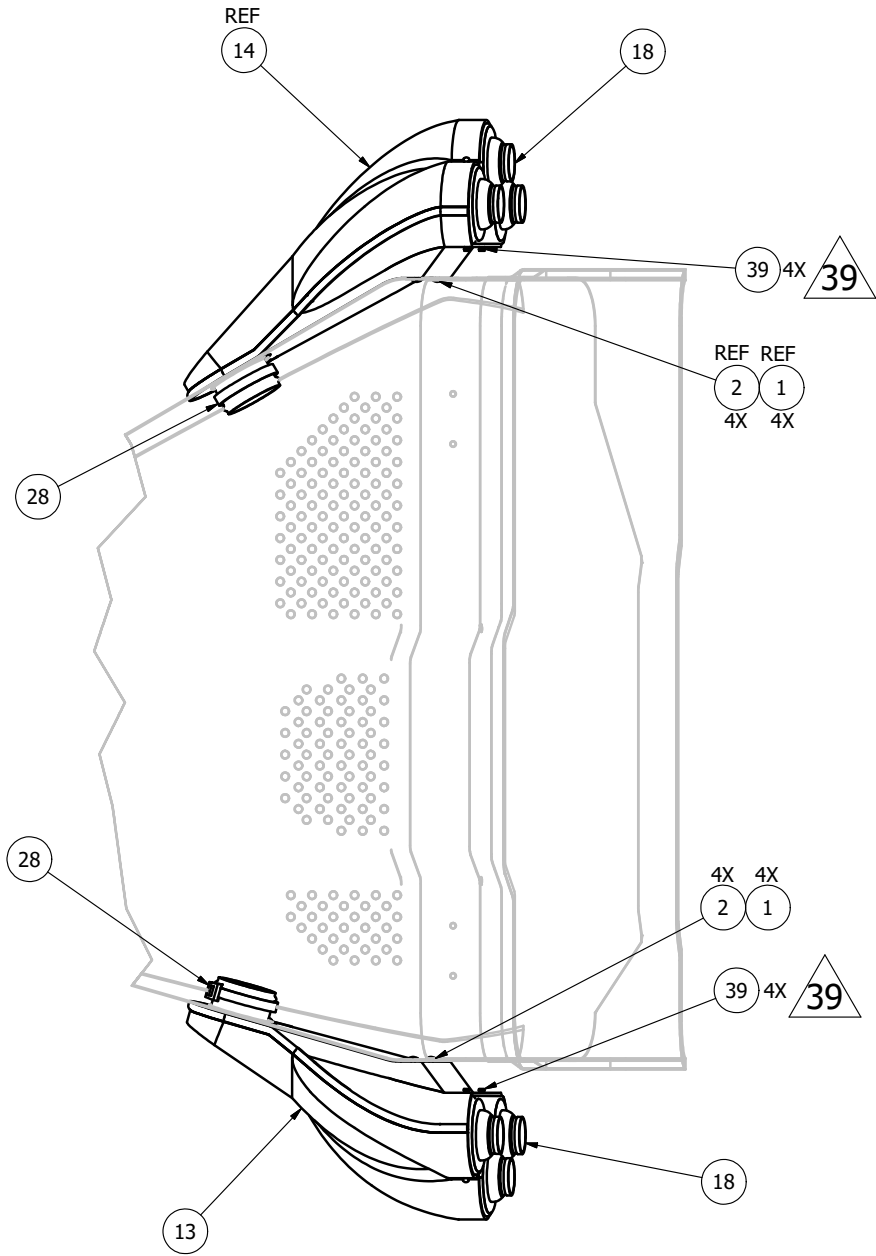
35. POSITION 2X OUTLET HOUSING ASSEMBLIES (ITEMS 13 & 14) ON EXISTING DUCTING HOLE,
ATTACH DUCTING USING 2X ZIP TIE (ITEM 28)
36. ALIGN HOUSING ASSEMBLIES BY ROTATING HOUSING ASSEMBLIES FRONT FACE TO BE
PARALLEL WITH INSTRUMENT PANEL FACE
37. MATCH DRILL OUTLET HOUSING ASSEMBLIES TO EXISTING RIVET HOLES, 8X Ø0.135"
38. INSTALL OUTLET HOUSING ASSEMBLIES USING 8X RIVETS (ITEM 2) & WASHERS (ITEM 1)
RIVET HEAD INSIDE INSTRUMENT PANEL SHROUD; WASHER AND RIVET SHANK INSIDE OUTLET
39. INSTALL OUTLET CAP ASSEMBLIES (ITEM 18) TO HOUSING ASSMEBLIES 2X, USE 4X PLASTIC
SNAP RIVETS (ITEM 39) PER SIDE

-3 RETROFIT

505AC-524-3 PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	8	140-001-1	WASHER
2	8	1624-0411	RIVET
13	1	505AC-5220-71	LH OUTLET HOUSING ASSY
14	1	505AC-5220-70	RH OUTLET HOUSING ASSY
18	2	505AC-5220-77	OUTLET CAP ASSY
28	2	MS3367-3-0	ZIP TIE
39	8	SRVO-2672B	SNAP RIVET



SECTION AF-AF
RH SIDE OUTLET HOLE DIMENSIONS
MIRRORED OPPOSITE SIDE



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PERMISSION OF PARAVION TECHNOLOGY, INC.

PROTO

Paravion® Inc. Technology		TITLE OUTLET PLENUM INSTALLATION			DRAWING NUMBER 505AC-524		
DIMENSIONS IN INCHES TOLERANCES EXCEPT WHERE NOTED: .X = ±.1 .XX = ±.05 .XXX = ±.010 ANGLES=± 1°		DRAWN BY KEW	CHK'D BY LS	APRVD. BY JT	DATE 5/8/15	REV J	ECO
THREADS: INTERNAL: CLASS 2B EXTERNAL: CLASS 2A		3RD ANGLE PROJECTION		DO NOT SCALE DRAWING ©2021 PARAVION TECH. INC. PARAVION IS A TRADEMARK OF PARAVION TECHNOLOGY INC.		SHEET 11 OF 11	

Bill of Materials

*505AC-524-2, REV. J

ITEM #	P/N	DESCRIPTION	QTY	TYP
0	*505AC-524-2, REV. J	OUTLET PLENUM INSTALLATION	1	KIT
1	140-001-1	WASHER	8	EA
2	NAS9301B4-03	RIVET(ALT: CR3213-4-03, 1624-0411)	8	EA
4	505AC-5200-100	ALIGNMENT TOOL	1	EA
5	505AC-5220-1	AFT OUTLET ASSY	1	EA
6	505AC-5220-23	T-FITTING	1	EA
7	505AC-5220-34	AFT DUCT ASSY	1	EA
8	505AC-5220-40	AFT DUCT ASSY	2	EA
10	505AC-5220-46	LEFT FRT DUCT ASSY	1	EA
11	505AC-5220-49	RIGHT FRT DUCT ASSY	1	EA
12	505AC-5220-5	Y-FITTING	1	EA
13	505AC-5220-50	LH FRT GLR DUCT ASSY	1	EA
14	505AC-5220-51	RH FRT GLR DUCT ASSY	1	EA
15	505AC-5220-7	OUTLET FLANGE	2	EA
16	ALBCBS 303 59-9	TIEDOWN STRIP	1	EA
17	CB9302V3	TIE MOUNT	3	EA
18	ES72184-1	LOUVER ASSY BLKHEAD	2	EA
19	MS21042L08	NUT	12	EA
20	NAS9926-3L	NUT	5	EA
21	MS21266-3N	GROMMET STRIP	3.75	IN
22	MS21919WDG16	ADEL CLAMP	2	EA
23	MS21919WDG40	ADEL CLAMP	2	EA
24	MS21919DG50	ADEL CLAMP	2	EA
25	MS27039-0807	SCREW	12	EA
26	MS27039-1-08	SCREW	3	EA
27	MS3367-2-0	ZIP TIE	4	EA

Bill of Materials

*505AC-524-2, REV. J

ITEM #	P/N	DESCRIPTION	QTY	TYP
28	MS3367-3-0	ZIP TIE	11	EA
29	NAS1149CN816R	WASHER	12	EA
30	NAS1149D0332J	WASHER	10	EA
31	NAS1149DN832J	WASHER	12	EA
32	MS21919WDG10	ADEL CLAMP	1	EA
33	NAS43DD3-23FC	SPACER	1	EA
34	MS27039-1-15	PAN HEAD SCREW	1	EA
35	505AC-5220-15	FRONT DUCT	1	EA
36	505AC-5220-10	AFT OUTLET ASSY	1	EA
37	91249A147	PAN HEAD SCREW BLACK	8	EA
38	96765A115	WASHER SS BLACK	8	EA
40	MS27039-1-10	SCREW	1	EA

Bill of Materials

*505AC-524-3, REV. J

ITEM #	P/N	DESCRIPTION	QTY	TYP
0	*505AC-524-3, REV. J	OUTLET PLENUM RETROFIT	1	KIT
1	140-001-1	WASHER	8	EA
2	NAS9301B4-03	RIVET(ALT: CR3213-4-03, 1624-0411)	8	EA
13	505AC-5220-71	LH FRT GLR DUCT ASSY	1	EA
14	505AC-5220-70	RH FRT GLR DUCT ASSY	1	EA
18	505AC-5220-77	OUTLET CAP ASSY	2	EA
28	MS3367-3-0	ZIP TIE	3	EA
39	SRVO-2672B	SNAP RIVET	8	EA

Bill of Materials

*505AC-524-5, REV. J

ITEM #	P/N	DESCRIPTION	QTY	TYP
0	*505AC-524-5, REV. J	OUTLET PLENUM INSTALLATION	1	KIT
1	140-001-1	WASHER	8	EA
2	NAS9301B4-03	RIVET(ALT: CR3213-4-03, 1624-0411)	8	EA
4	505AC-5200-100	ALIGNMENT TOOL	1	EA
5	505AC-5220-1	AFT OUTLET ASSY	1	EA
6	505AC-5220-23	T-FITTING	1	EA
7	505AC-5220-34	AFT DUCT ASSY	1	EA
8	505AC-5220-40	AFT DUCT ASSY	2	EA
10	505AC-5220-46	LEFT FRT DUCT ASSY	1	EA
11	505AC-5220-49	RIGHT FRT DUCT ASSY	1	EA
12	505AC-5220-5	Y-FITTING	1	EA
13	505AC-5220-71	LH FRT GLR DUCT ASSY	1	EA
14	505AC-5220-70	RH FRT GLR DUCT ASSY	1	EA
15	505AC-5220-7	OUTLET FLANGE	2	EA
16	ALBCBS 303 59-9	TIEDOWN STRIP	1	EA
17	CB9302V3	TIE MOUNT	3	EA
18	505AC-5220-77	OUTLET CAP ASSY	2	EA
19	MS21042L08	NUT	12	EA
20	NAS9926-3L	NUT	5	EA
21	MS21266-3N	GROMMET STRIP	3.75	IN
22	MS21919WDG16	ADEL CLAMP	2	EA
23	MS21919WDG40	ADEL CLAMP	2	EA
24	MS21919DG50	ADEL CLAMP	2	EA
25	MS27039-0807	SCREW	12	EA
26	MS27039-1-08	SCREW	3	EA
27	MS3367-2-0	ZIP TIE	4	EA

Bill of Materials

*505AC-524-5, REV. J

ITEM #	P/N	DESCRIPTION	QTY	TYP
28	MS3367-3-0	ZIP TIE	11	EA
29	NAS1149CN816R	WASHER	12	EA
30	NAS1149D0332J	WASHER	10	EA
31	NAS1149DN832J	WASHER	12	EA
32	MS21919WDG10	ADEL CLAMP	1	EA
33	NAS43DD3-23FC	SPACER	1	EA
34	MS27039-1-15	PAN HEAD SCREW	1	EA
35	505AC-5220-15	FRONT DUCT	1	EA
36	505AC-5220-10	AFT OUTLET ASSY	1	EA
37	91249A147	PAN HEAD SCREW BLACK	8	EA
38	96765A115	WASHER SS BLACK	8	EA
39	SRVO-2672B	SNAP RIVET	8	EA
40	MS27039-1-10	SCREW	1	EA